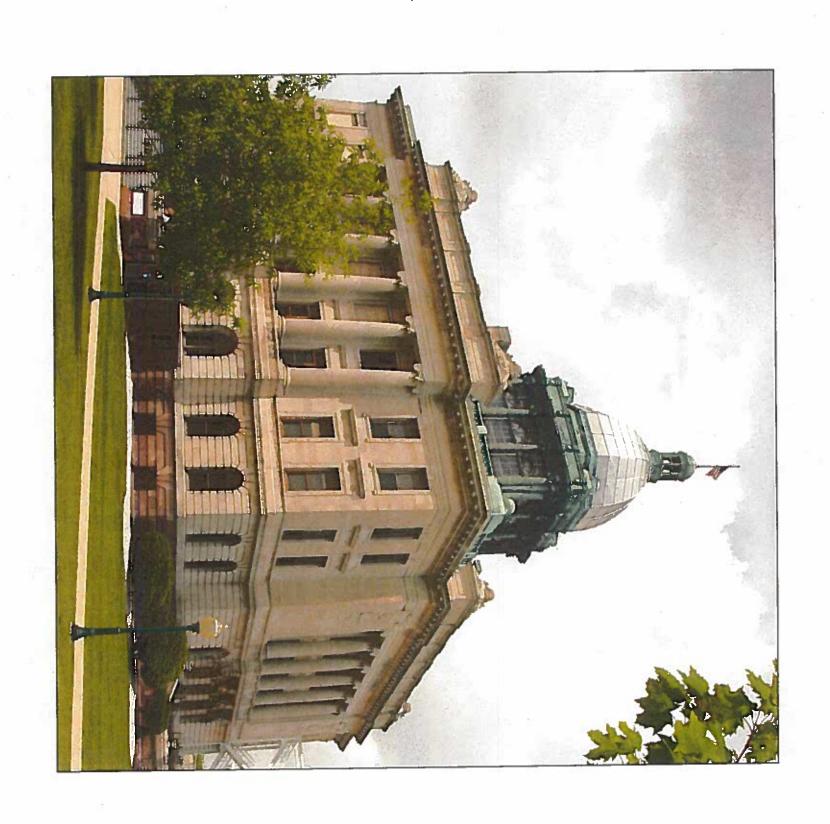
LANITOWOC COUNTY COURT HOUSE

Historic Structure Report, August 2004



CONTRIBUTING FIRMS

Bamco Architects, Inc.

Old Northwest Research

Kahler Slater Architects, Inc.

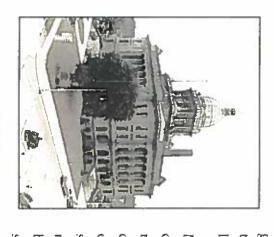
ACKNOWLEDGEMENTS

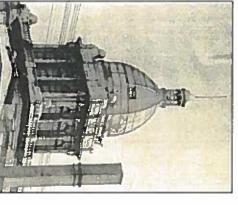
this report. Jeffery Beyer, Public Works Department who have contributed significant time and effort in and construction conditions were analyzed. Other resources included the following: overview of the community and building. Representing Hamann Construction, Jim Hamann the completed report. Bonnie Pawelski of Kahler Slater provided graphic design services for the within the report. Richard Eschner of Kahler Slater directed and prepared the written content of information from existing county archival records and prepared the final CAD drawings included Robert Jagemann, Gene Maloney and Daniel Bayer, conducted extensive research, gathered Construction. Throughout the development of the report, the Bamco Architects team, led by included Bamco Architects, Kahler Slater Architects, Old Northwest Research and Hamann dedication and assistance in defining the focus of this report and in assisting in the gathering of Department Assistant Director, have enthusiastically represented Manitowoc County. Their This Historic Structure Report (HSR) is a summary of the combined efforts of many individuals provided building and construction systems oversight, building from local, regional and statewide resources, and he prepared the written historical report. Robert Fay of Old Northwest Research conducted significant research of the history of the resource materials were essential to the completion of all work. The HSR consultant team members as the history of the building was evaluated Director, and Gerard Neuser, Public Works compiling the information provided within

- Manitowoc County Public Works Department
- Manitowoc County Clerk's Office
- City of Manitowoc Planning Department
- City of Manitowoc Inspection Department
- Herald Times Reporter, Manitowoc
- Manitowoc Public Library
- Manitowoc County Historical Society
- Wisconsin Historical Society
- Wisconsin Society, American Institute of Architects
- Kenneth Brey, retired Professional Engineer, Manitowoc
- Roy H. Stark, retired Architect, Manitowoc
- Calvin Stein, building designer and retired City of Manitowoc building inspector
- 2002 Wisconsin Enrolled Commercial Building Code
- Previous completed studies:
- Renovation and Expansion Feasibility Study prepared by the Hoffman Corporation, dated November 9, 1998
- Courthouse Analysis and Renovation Report prepared by Bray Associates, Architects dated September 9, 1999
- Sommerville Associates Space Study dated February 1994

We have also utilized the resources and knowledge of other parties but were unable to list those resources due to space limitations.

EXECUTIVE SUMMARY





he Manitowoc County Court House is the second court house located on the current site. Architect Christian H. Tegen designed the building in 1902-04, and contractor George Rickman & Sons completed construction in 1907. The final building cost amounted to approximately \$238,000. The building was officially accepted by Manitowoc County on November 12, 1907. During almost one hundred years of continued use, changing and growing space and technological needs have presented the need for continued remodeling during the past ten decades, and this trend has continued with many county-operated services now being located in other adjacent or off-site locations.

prominence in the community. Restoration or remodeling considerations relating to all other and, most importantly, enhance the building in a manner that will return the building to its earlier expressed interest in building improvements that will functional and restoration needs were evaluated by replacement of the exterior fire exit stairway located on the east elevation, and (6) the second the building, (4) needed tuck pointing and masonry repairs for the building exterior walls, (5) the scope of select restoration for the building. The restoration considerations pertain to (1) the been prepared at the request of Manitowoc County to summarize and prioritize a recommended number of studies have identified potential restoration and remodeling goals, and this report has symbol of the county government when viewed from all directions. During the past decade, a exterior dome and above the interior dome. The exterior dome serves as a visual focal point and concurrently remodeled with the introduction of a service platform located at the base of the dome located on the roof of the building. Stainless Most significantly, a spring storm in 1950 significan building functions and spaces located on all floors are specifically excluded from this study. building components were deemed most essential in relation to needed improvements, continued dome, (2) the rotunda, (3) the exterior stairs located replace the glass panels and to reduce future maintenance concerns. The interior dome was floor space that currently houses the court room for Branch No. 3. As the current and near-term use and maintenance concerns. address functional and maintenance needs, community groups and individuals have Manitowoc County representatives, these steel panels were subsequently installed to tly damaged the original steel-framed glass at the north, east and south elevations of

This report intentionally focuses on restoring those building components and functions that will make prudent use of available resources, will best enhance the public spaces, will provide continued public use of the building, and will provide increased long-term durability. Restoration or remodeling of other internal spaces occupied by a variety of county services is excluded from these recommendations.

Chapter I



I) DOME

manner that is similar to the the domes and Rotunda, in a select reconstruction of both on exterior dome, and metal paneling and applied insulation Remove stainless steel cladding transmit into the space beneath domes to allow natural light to on the interior dome. Complete



ROTUNDA

focal point of the building. the enhancement of this central and exterior dome will support of new, discrete lighting within original historical detail within wall surfaces to complement the murals may be placed on specific and floor finishes, and perimeter restoration of the wall, ceiling of both domes, complete select the Rotunda, the interior dome the space. The design and selection walls at each floor. Additional In conjunction with the restoration



SOUTH EXTERIOR STAIRS 3) NORTH, EAST AND

generation of stairway on top of flanking walls is also of existing pole lights placed aesthetic needs. Replacement adjacent sand stone walls is construction. Reconstruction original design. appearance that is historically recommended to achieve an maintenance, safety and recommended to address of each stair and repairs to Existing stairs are the third more consistent with the

> addition of discrete new exterior staining is recommended. The

landmark lighting concurrent

repairs to eliminate sub-surface all cut stone surfaces, roofing restoration, chemical cleaning of

moisture penetration, and surface

Required tuck pointing, masonry

AND LANDMARK LIGHTING

POINTING, MASONRY

4) EXTERIOR TUCK

RESTORATION, REPAIRS

will truly enhance the selected the needed visual impact that

restoration work.

lighting will complement all work is recommended. This and exterior masomy restoration with the restoration of the domes

restoration work and will provide



5) EXTERIOR FIRE STAIR

second and third floors. Removal of this stair and construction of a new second interior stairway is recommended to address this considered of equal importance to the successful completion of to provide a State of Wisconsin code-required second exit for the other select restoration work. need. Completion of this work is This stair was added in 1975



6) BRANCH COURT No. 3

Court No. 3 and the rest of the building is recommended. with the character of Branch manner that is more sympathetic Restoration of this room in a building has been completed. and public functions within the remainder of the original design character with that of the Significant previous remodeling that is dramatically out of



METHODOLOGY

his Historic Structure Report (HSR) was initiated through a request for proposal (RFP) process developed and issued to consultant candidates by the Manitowoc County Public works Department in January 2004. Manitowoc County had previously determined that an HSR study be completed to allow definition of needed building improvements, establish a prioritization for the selected improvements, and to seek public, private and financial support for select restoration and remodeling of the building. This report is intended to serve as the foundation from which restoration and remodeling can be completed as deemed necessary and affordable by the county. Specific solutions and related details are not included within the scope of this report. That work must be completed in a separate, future detailed design and cost estimating design phase.

Manitowoc County has been represented by Public Works Department representatives Jeffery Beyer, Public Works Department Director, and Gerard Neuser, Public Works Department Assistant Director. As the report was prepared, various meetings and reviews were conducted with other county representatives on both a formal and informal basis.

The report has been prepared by the consultant team that was selected from the request for proposal process. The report has been completed through the combined efforts of Bamco Architects of Manitowoc, Kahler Slater Architects of Milwaukee, Robert Fay, Old Northwest Research of Two Rivers, and Hamann Construction of Manitowoc. The HSR consultant team conducted extensive on-site observations of the existing building during the development of the report. Numerous photographs were also taken to document existing conditions. Some of those photos have been selectively incorporated into various portions of this report.

HISTORICAL STRUCTURE REPORT GOALS AND FOCUS

It is important to note that this report is not intended to provide a detailed analysis of the entire building, from a restoration and remodeling standpoint. The initial request for proposal and subsequent informational meetings held with consultant team candidates noted that the report should focus on providing a summary overview of restoration recommendations relating to six specific components that are a part of the building. Those issues on which the report was initially intended to focus included: (1) the dome, (2) rotunda, (3) the north, south and east exterior stairs, and (4) exterior tuck pointing and masonry restoration or repairs. As the report preparation was initiated, Manitowoc County requested an evaluation and restoration or remodeling recommendation relating to: (5) the second exterior fire exit stairway (an open, steel-framed stair added in 1975, located at the east elevation) and, (6) the Branch Court No. 3. This report provides an evaluation and recommendations relating to those building features, but does not provide specific design solutions or cost estimates to those recommendations and their implementation. More detailed design solutions and related cost estimates must be part of a future design and budgeting phase for the selected building restoration.

> Z D OMMENDE REPAIRS U RESTORATION





DOME

story rotunda located below the interior dome. Research has indicated that the original glazing allow for the intermediate steel deck, constructed original construction as closely as is feasible is recommended. Restoration considerations must have to be conducted to provide a detailed assessment of existing conditions, and to determine currently in place. Significant on-site inspection of a transmission of natural light downward to the top of the inner dome below and into the threejoist deck structure remaining in place) may be a concept to be considered. This will allow the to pass downward to the interior dome, removal of a portion of the deck surface (with steel bar remain in place in some form. To allow the transmission of natural light from the exterior dome the Manitowoc County government. Restoration of the dome to a condition that replicates the from afar. In many ways, the dome (and building placed beneath the dome) is the civic image of The dome is the focal point of the building when viewed from the immediate neighborhood and provide improved overall weather resistance and water tightness, as compared to the original system. can exceed the functional and thermal performance of the original system. These new systems can life span, a wide variety of new glazing types and window framing systems are now available that original system in all details. However, from the viewpoint of improved quality, maintenance and the best means of reinstalling new glazing into the may have been some form of flat, transparent glazing panels set into the steel framing that is glazing framing, gasket and mullion system should match the original sight lines (glass openings span the polygonal openings, and to achieve required historical restoration viewpoint, the new glazing and glazing framing system should match the combined thermal performance of the inner and outer domes. Provision of new interior lighting use of new insulated glazing within the outer dome system may be considered to enhance the dome system, the new dome glazing would not necessarily have to be insulated glazing. However, outer dome does not serve as the primary heat loss control envelope for the building roof and detailed drawings of the original glazing and glazing framing are no longer available. Since the and mullion size, width and profile) as closely as is feasible. Research to date has concluded that The new translucent glazing shall be either tempered to highlight the dome when viewed from the exterior must also be an integral component of the redesign of the complete exterior dome glazing work or laminated, and of a thickness required to original structural framing. From a purely all facets of the existing dome framing will in beneath the exterior dome in 1950, to structural integrity. Most importantly, the

significant on-site inspection of all facets of the existing interior dome framing must be conducted to ascertain all existing conditions, and to determine with translucent glazing set into the existing wood In a similar fashion, the existing metal paneling attached to the interior dome shall be replaced with the original design, appearance and performance. Use of insulated, translucent and tempered inspection and detailed design work. The selection the original structural framing. Reuse of the existing wood framing - or partial or complete (or laminated) glazing in conjunction with the new exterior dome glazing system is recommended replacement of the wood framing system - must be achieve the optimum functional thermal performance that will best replicate the original of glazing shall be based on the best match the best means of installing new glazing into framing system. As with the exterior dome, considered, based on future extensive on-site







EXISTING INSULATION AND VENTILATING SYSTEM COVERING TOP OF INTERIOR DOME







EXISTING WALLS AT WHICH MURALS DO NOT OCCUR; CENTRAL, OPEN STAIR







EXISTING DETERIORATING EXTERIOR STAIRS

of the existing supply and exhaust grill system must be and ventilating ductwork system currently place on to required grilles into the vertical wall support located beneath the dome. Integration of new, discrete design and intent of the original interior dome. Removal of the existing rigid insulation system lighting on top of or beneath the dome, or a combination thereof, is recommended. re-evaluated with consideration of integrating p of the dome is recommended. The location

and to the rotunda space below. the desired visual and functional result will be attained. Both domes are integral to one another The successful restoration of both domes must be viewed as a combined package to ensure that

wood and plaster moldings, all painted surfaces, and steel and wood handrails is recommended. is recommended. Some existing glazed sidelight and door panels that are located within the perimeter and trim are painted gold. Repainting all handrail construction black to match original construction of the restoration process. The current decorative wrought iron handrail newel posts, balusters Obtaining paint chips from existing surfaces to determine the original color palette will be a part during recent years. Careful inspection and restoration of the remaining painted decorative friezes. to be very similar to the original construction. Some decorative murals have been refurbished With few exceptions, the design and condition of all design is recommended. does not match original construction. Select restoration of these entries to replicate the original addition, some entry doors and related wood casings that is inconsistent with the original glazing. Replacement of this glazing is recommended. In walls of the corridors that surround the rotunda have surfaces within the existing rotunda appear have been part of a previous remodeling that been replaced with bottle glass ~ type glass

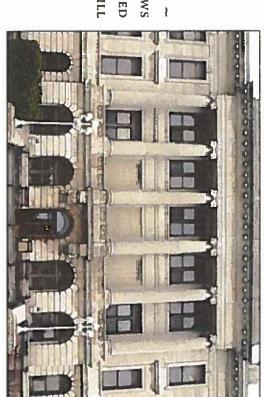
WALL MURALS

rotunda. In addition, other niches or recessed, painted plaster walls are located within other walls walls that surround the rotunda. They can be viewed from a variety of locations throughout the Original, well-maintained murals that depict the history of the Manitowoc region are located on design and to the history of the building and community. Defined procedures for is recommended. This will ensure that the completed results will be sympathetic to the original interior space. If considered, implementation of a carefully defined process for adding new murals new murals or other art work that would complement the original murals and character of the used in other communities and by the Wisconsin Arts Board for many years. that encompass the rotunda. These areas may implementing the solicitation of interested artists and for selecting the final artwork have been be considered candidates for installing

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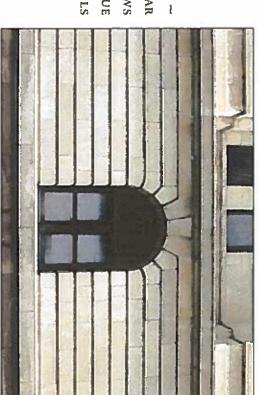
NORTH ELEVATION ~
ORIGINAL WINDOWS
REMOVED AND REPLACED
WITH MASONRY INFILL



WEST ELEVATION ~
ORIGINAL WINDOWS
REMOVED AND REPLACED
WITH MASONRY INFILL



ALL ELEVATIONS ~
ORIGINAL CLEAR
ARCHED WINDOWS
REPLACED WITH OPAQUE
TRANSOM PANELS



EXTERIOR CONCRETE STAIRS

and risers. Complete replacement of the stairs and handrails is recommended. Replacement with or replaced. The surfaces of the concrete treads and risers are irregular in profile and are not units but are smaller than the original units. This is of concrete must be completed. Lastly, the original light poles that are located on top of the walls Additional research to confirm whether or not the original stairs were constructed of cut stone or new stairs that more closely harmonize with the historical context of the building is recommended on the stair risers in numerous locations. This is caused do not fit the original historic character of the building. Significant rust stains have been noted to concrete, when properly designed, installed and maintained. In addition, the current handrails be initially higher in cost than concrete, a cut stone system will have a longer lifetime as compared of the current concrete. This must be verified through additional research. While cut stone may Some research indicates that the original stairs may All three concrete stairways located at the north, east and south have been extensively patched matches the original fixtures will significantly add anchor bolts that are now exposed to view. Selection of new fixtures whose size, design and finish that flank the stairs have been replaced with fixtures that were intended to be similar to the original heavily used as a connection to the new county jail, also has a gray-colored surface on the treads placed beneath the exposed surfaces of the risers and treads. The south stair, potentially the most consistent with the appearance of the finishes and historical restoration. materials that were originally constructed. have been constructed with granite, in lieu apparent in the placement of the remaining by moisture penetration into steel reinforcing to the sense of appropriate and sensitive

EXTERIOR TUCK POINTING, MASONRY RESTORATION, REPAIRS AND LANDMARK LIGHTING

In general, existing limestone wall cladding, lonic columns, decorative cornices, and balconies on all building elevations are in good condition. Evidence of significant efflorescence (white, powdery staining) on various surfaces is noted on all elevations, and further detailed inspection of all wall surfaces, balconies and columns is required. The cause of entry of moisture into these surfaces must be defined and solutions determined to prevent further damage and discoloration. Once the repairs have been completed, chemical cleaning of all cut stone facade surfaces is recommended. A variety of chemical masonry cleaning materials that are environmentally safe and appropriate for use on the limestone and all exterior masonry are currently available in the marketplace. Sandblasting in any form is not recommended. Once the cleaning and joint repair processes have been completed, application of appropriate joint and crack scalants must be completed. See Appendix C for more detailed comments pertaining to each building facade. A brief overview of specific work on each elevation is as follows:

East Elevation: Efflorescence noted at second floor beltline, windows and door openings. A previous crack in the stonework haunch at the underside of the balcony has been patched. Rework with materials that more closely match the color of the stone is recommended.

(Completed by Kahler Slater) LANDMARK LIGHTING MILWAUKEE COUNTY COURTHOUSE EXAMPLE ~



Wisconsin Ave. Bridge (Completed by Kahler Slater) LANDMARK LIGHTING EXAMPLE ~



CONSTRUCTED IN 1975 **EXTERIOR SECONDARY** FIRE EXIT STAIR



- windows that have opaque, reflective glazing to other windows (with corresponding court room remodeling required), or replacement with behind these panels. Removal and replacement with either functional windows matching the North Elevation: At the second floor, original windows were removed and replaced with stack bond, cream-colored face brick to accommodate the functional needs of the court room located restored, is recommended. allow the original window pattern to be
- South Elevation: Research completed to date cor that occur at window openings are not of original construction. They may have been added as part of a court room remodeling. If not original, provide new windows and glazing in a manner similar to the options noted for the north elevation ncludes that the existing stone infill panels
- West Elevation: The pattern of windows at the second floor and at the first floor is not consistent missing in the rhythm of windows that occur on the facade. If not part of the original with the rest of the building, with one window at construction, consider provision of new windows in a manner similar to the options noted at matches the original chimney construction below is recommended. Retention of this extension but replacement of the extension materials with masonry work that the north and south elevations. The original chimney was modified with a vertical extension. the second floor and two at the first floor
- non-reflective opaque transom panels with reflecti considered functionally or fiscally prudent at this matches the original units, and required remodeling of the related interior ceilings, is not window head. Replacement of the windows with frame profiles and glazing that more closely of interior, suspended acoustical tile ceilings that are at a lower height than the top of the to that of the original units, opaque, upper transom panels are now typically located in front All Facades: Original windows were replaced with new, aluminum-framed, insulated glass with the design and construction of the original building will more closely simulate a window and will provide an appearance that will be more consistent units in 1978. While the window size, mullion placement, profile and mullion spacing is similar ive, opaque glazing is recommended. This time. However, replacement of the current

EXTERIOR LANDMARK LIGHTING

of current lighting technology systems, the lighting will greatly enhance the presence of the building in the entire downtown region of Manitowoc. building. Assuming that restoration of the dome will be of a high priority, the addition of discrete, unobtrusive, providing beneficial highlighting to the inappropriately providing a high intensity light coverage over an entire building. Through selection the exterior of the building is recommended to enhance select facade components of the entire the building, the surrounding neighborhood, and the building occupants. The process of designing Landmark lighting concepts focus on lighting the key features of a building, not simply and focused light fixtures to highlight the dome and other significant exterior features of the building As the final scope of restoration work is selected, the integration of new landmark lighting into building, while respecting the character of can be accomplished in a manner that is

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BRANCH COURT No. 3 INTERIOR VIEW OF



successfully completed throughout the state during recent years. and integrating landmark lighting systems into a building and adjacent neighborhood has been

EXTERIOR SECONDARY FIRE EXIT STAIR

thereof) to other locations within the building, or additional internal space to accommodate the stair, and moving select functions (or portions currently available on-site (and in current off-site locations), this concept will involve allocating minimizing adverse affects on internal space use. Since all Manitowoc County functions are not require a careful evaluation of where the stair and reconstruction of the stair at a new location within the building is recommended. This will the stair is needed for functional and code conformance purposes, removal of the exterior stair north end of the east facade, and is an obvious and inconsistent change from the original building dome, replacement of the stair is in many ways of equal importance to the success of the exterior the court house to its original design and appearance. by county representatives. that will connect the court house with the existing county jail has also been discussed conceptually the restoration goals that have been established. An option of locating this stair in a future addition reconstruction is recommended to ensure that the final selected scope of restoration work meets currently placed within the court house, and future design. It significantly detracts from the design and civic image of the court house. Assuming that restoration effort. The existing open, steel structure stair constructed in 1975 is located at the This existing building function is a key facet in completing the successful, selective restoration of to an off-site location. Completion of this total departmental space needs exceed that Although visually smaller in scale than the can be reconstructed internally while

BRANCH COURT NO. 3

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details of Circuit Court No. 2 may serve as a foundation for the implementation of functional and finishes that more closely match that of the original building is recommended. The design finishes, flooring, suspended ceiling, lighting, millwork and wood trim detailing with new construction building design. We recommend that the room be completely remodeled. Replacement of wall Extensive previous remodeling of this room exhibits a dramatic and inconsistent fit with the original and aesthetic solutions in this room.

OTHER INTERIOR FUNCTIONAL SPACES

remodeling of those spaces that are located outside the perimeter walls of the rotunda at all levels have been intentionally excluded from the scope and minor remodeling during the life of the building. Considerations pertaining to restoration or Other functional spaces occupied by county services on all floors have undergone significant and intent of this Historic Structure Report.